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## LIST OF ABBREVIATIONS

AASHTO-	-	American Association of State Highway and Transportation Officials
ACAA	-	American Coal Ash Association
ASTM	-	American Society of Testing and Materials
BS	-	British Standard
CBR	-	California bearing ratio
CCRs	-	Coal combustion residues
CD	-	Consolidated drained
CU	-	Consolidated undrained
FGD	-	Flue gas desulfurization
USCS	-	Unified Soil Classification System

## LIST OF SYMBOLS

$\rho_d$	Dry density
$\rho$	Bulk density
$w$	Moisture content of soil
$G_s$	Specified gravity
$D$	Diameter
$S$	Shear strength
$c$	Cohesion intercept
$\phi$	Angle of internal friction
$\sigma_1$	Major principle stress
$\sigma_2$	Intermediate principle stress
$\sigma_3$	Minor principle stress
$\lambda$	Wavelength
$d$	Inter planner spacing
$\theta$	Angle of incidence of X-ray to the Cu target element
$C_u$	Coefficient of uniformity
$C_c$	Coefficient of curvature
$\gamma_d$	Compacted dry density
$\gamma_n$	Normalized density
$\gamma_w$	Water density
$\sigma_d$	Deviator stress
$\varepsilon_v$	Volumetric strain
$\varepsilon_a$	Axial strain
$C_C$	Compression index

$e$	Void ratio
$\sigma'$	Effective pressure

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